| L 17529-63              |   |  |
|-------------------------|---|--|
| ACCESSION NR: AP30045   | 35  |  |
|                         |   |  |
| spectra of the oil irra | adiated by the betatron. However,                                   | after irradiation with                     |
| rapron is believed in   | the intensity of these bands inor an open vessel with a transformer | 그 교육적 그는 교육은 근 이 그 그 그는 그는 그는 그는 것 같은 것은 것 |
| TO I, the oxidizing him | Der of the oil incresses and the                                    | olootuda durus et                          |
| ercres are decreased.   | As a result of the irradiation, Benthe oil. Orig. art. has: 3 teb   |  |
| · ·                     | - one offer offer acts has. 9 tgo.                                  | les and ) ligures.                         |
| ASSOCIATION: none       |   |  |
|                         |   |  |
| SUBMITTED: 00           | DATE ACQ: 27Aug63   | ENCL: 00                                   |
|                         | DATE ACQ: 27Aug63<br>NO REF SOV: 012                                |  |
| SUBMITTED: 00 ST.       | 그리다 그 사람이 그의 가 있다니까요?   | ENCL: 00<br>OTHER: 003                     |
|                         | 그리다 그 사람이 그의 가 있다니까요?   |  |
|                         | 그리다 그 사람이 그의 가 있다니까요?   |  |
|                         | 그리다 그 사람이 그의 가 있다니까요?   |  |
|                         | 그리다 그 사람이 그의 가 있다니까요?   |  |

ACC NR: AP6018620 (A)

SOURCE CODE: UR/0065/66/000/006/0021/0023

AUTHOR: Bazin, A. P.; Kaplan, S. Z.; Spirina, I. F.

ORG: none

TITLE: The effect of small doses of Gamma-rays and neutrons on the aging of oils

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 6, 1966, 21-23

TOPIC TAGS: transformer oil, bremsstrahlung, gamma irradiation, neutron irradiation, petroleum, solution acidity, lubricant viscosity, lubricating oil, dielectric property nonmetal aging

ABSTRACT: The authors study the initiating action of gamma-rays and neutrons on the aging of petroleum oils in contact with structural materials. The results of experiments on the study of the influence of the bremsstrahlung from a 25-Mev betatron on the dielectric properties of transformer oil (GOST 982-56) in contact with active oxidation catalysts (copper and copper oxide), and the influence of fast neutrons (Po-Be) on the viscosity and oxidation number of No. 22 turbine oil with and without a 5% addition of polyisobutylene during storage in steel containers. The initiating dose amounted to 500 r. It was found that transformer oil subjected to a short-term irradiation (475 rad) ages faster than non-irradiated oil during prolonged contact with copper or copper oxide in air. On irradiation with fast neutrons (109 neutr/cm2) and subsequent prolonged storage of No. 22 turbine oil with and without 5% polyiso-

Card 1/2

UDC: 537.531:665.521.5

| ACC<br>but     | 11071-<br>NR:<br>ydene | AP6  | 01862<br>ne vis | cosity             | y and | the oxi | datio | n num<br>-Be) | ber re | emair | ı practio | cally ( | ınchan<br>(beta | ged. | The<br>Lve |  |
|----------------|------------------------|------|-----------------|--------------------|-------|---------|-------|---------------|--------|-------|-----------|---------|-----------------|------|------------|--|
| <br>tur<br>iso | bine<br>topes          | 932  | 2 and           | s <sup>35</sup> ). | Orig  | none/   | has:  | 2 ta          | bles.  |       |           |         |                 |      |            |  |
|                |                        |      |                 |                    |       |         |       |               |        |       |           |         |                 |      |            |  |
|                |                        |      |                 |                    | •     |         |       |               | æ      |       |           |         |                 |      |            |  |
|                |                        |      |                 |                    |       |         |       |               |        |       |           |         | · .             |      |            |  |
|                |                        |      |                 |                    |       | •       |       |               |        |       |           |         |                 |      |            |  |
| Car            | . 2                    | /2 - | PIV             | ;                  |       |         |       |               |        |       |           |         |                 |      |            |  |

UR/0190/65/007/004/0734/0736 L 44132-65 EPF(c)/EPR/EWP(m)/EWP(j)/T ACCESSION NR: AP5011256 31 30 Bogdanov, M. N.; Khar'kov, S. N.; Spirin AUTHOR: B Leshchiner, A. U.; Plyashkevich, L. A. TITLE: Synthesis and properties of polyaryl esters containing carboxyl groups SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 4, 1965, 734-746 TOPIC TAGS: polyaryl ester, carboxyl group, heat resistant polymer ABSTRACT: New polyaryl esters containing free carboxyl groups have been prepared and some of their properties have been studied. The introduction of carboxyl groups was of interest as a means of imparting to the polymers solubility in alkalies and ion exchange properties, and of increasing heat resistance via the formation of salt-like cross-links. Polymeric and copolymeric polygryl esters were prepared by interfacial polycondensation of trimesinyl dichloride (I) and/or terephthaloyl chloride (II) and 4,4'-dihydroxy-2"-carboxytriphenylmethane (III) and/or 2,2-bis(4-hydroxyphenyl)propane (IV) in sodium hydroxide The properties of the polyaryl esters solution at room temperature. Card 1/2

| ACCESSION NR: AP501125   |   | es. All polyaryl este                                | rs  |
|--|---|--|---|
| were highly dependent of<br>from I were poorly solv<br>alkalies with hydrolysi   | hla in dilute Alkalles  | " DAC BOLKOLE IN POLONE                              | ger                                       |
| soluble in cresol and t<br>solubility in cresol are  | etrechloroethane: WltD  | I CUG RECIPION OF THE                                | le 🔯                                      |
| a stanka athating in i   | ha cold and in cresol.  | TUE DOTAGIAT COCCES                                  | 3. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. |
|  | on in the renge 240-  | (200, Urik, aro, nas.                                |   |
| melted with decompositi<br>2 formulas and 1 table.   | on in the range 240-  | [SM]   |   |
| melted with decompositi<br>2 formulas and 1 table.   | on in the range 240-2   | el'skiy institut                                     |   |
| melted with decompositi<br>2 formulas and 1 table.   | on in the range 240-2   | el'skiy institut                                     |   |
| melted with decompositi<br>2 formulas and 1 table.<br>ASSOCIATION: Vsesoyuzz<br>iskusstvennogo volokna   | on in the range 240-2   | el'skiy institut                                     |   |
| melted with decompositi<br>2 formulas and 1 table.<br>ASSOCIATION: Vsesoyuzz<br>iskusstvennogo volokna<br>of Synthetic Fibers)                       | on in the range 240—3  ayy nauchno-issledovate  (All-Union Scientific | el'skiy institut<br>Research Institute               |   |
| melted with decompositi<br>2 formulas and 1 table.<br>ASSOCIATION: Vsesoyuzr<br>iskusstvennogo volokna<br>of Synthetic Fibers)<br>SUBMITTED: 02Ju164 | on in the range 240—3  ayy nauchno-issledovate (All-Union Scientific  | el'skiy institut Research Institute  SUB CODE: OC,GC |   |

YEREMENKO, V.D.; MIROCHNIK, F.M.; SPIRINA, K.F.

Sanitary control of vegetables and fruits treated with methyl bromide: gas. Gig. i san. 27 no.3:59-63 Mr '62. (MIRA 15:4)

1. Iz Moskovskoy gorodskoy sanitarno-epidemiologicheskoy stantsii 1 Instituta narodnogo khozyaystva imeni G.V.Plekhanova. (FRUIT) (VEGETABLES) (METHANE)

| inningrad. Glavmays gooft inheakaya observatoriya  Voprosy almopticheskoy kilmatologii i gilogooftiiki (Problema of Synciati, 1999; 81 p. (Sories; 1117 Trudy, Vyp. 58) Errata at proprie Cimanology and Hallogoophuica) Leningrad, Gilubosatoring daily intered. 1999; 81 p. (Sories; 1117 Trudy, Vyp. 58) Errata abouting daily intered. 1999; 82 p. (Sories; 1117 Trudy, Vyp. 58) Errata cheskoy alumby.  Moreover, 1999; 82 p. (Sories; 1117 Trudy, Vyp. 58) Errata cheskoy alumby.  Moreover, 1999; 83 p. (Sories; 112 Trudy, Vyp. 58) Errata cheskoy alumby.  Moreover, 1999; 1998; 1999;  | Inningrad. Glavmaya geoftlineskaya observatoriya  Vorosay sinopticineskaya observatoriya  Vorosay sinopticineskaya observatoriya  Vorosay sinopticinesky kinacholgili igilogofilitili (Problesa  Sponding Menori, 1,200 copica pinindi.  Sponding Menori, 1,200 copica pinindi.  Malindra in the final of long-range upravlanty gidroseteorologilish in the final of ingernate search forcessing.  WOWEAGE: This sa strings are intended to goophysicints and asteorologilistic in the final of long-range washer forcessing.  OVERAGE: This is a collection of Graticles in the final of remarks the final of the results of  |
|--|--|
| leningrad. Glawnaya geofulineskaya observatoriya Voprosy sinopitcheskay kitmatologii i geliogeofulia i selampiu i gampiu i geofulianiology and Heliogeophysics i laserted. 1,200 copies printed.  Ponsoring Agency: USSR. Glawnoye upravleniye gid observat Agency: 1,200 copies printed.  Ponsoring Agency: USSR. Glawnoye upravleniye gid observat Agency: 1,200 copies printed.  Ed. (Title page): L.A. Vitel's Candidate of Geograms: (Inside book): Yury. Vissoy: Tech. Ed.: N PURPOSE: These articles are intended for geophysic of the copies of the first of the copies of | Identificated Glavnaya geofur Theadaya observatoriya Voprosy sincopitheanovy Kinaatalogii i geliogeofizii toolidate 1920 osal meliodeophylica) is alip inserted 1,200 copies printed.  Someoring Agenty: USSR. Glavnoye upravlentye gid obsekcy alumby.  M. (Titla page): L.A. Yitala, Candidate of Geogra Ed. (Inside book): Yu.V. Visaov; Tech, Ed.: N FURFOSE: These articles are intended for geophysic odites in the field of long-range weather force of the contract of long-range weather force of proposic climated for Manylais in the method weather. An analysis in climate no the method weather. An analysis in climate in minophysis of mentals of the thermal regime, macrocirculation of framels nomelies in the class in the finance of the in quantitative precipitation forceasing. Problems in the Cappins of the thermal regime, macrocirculation for of thermal regime, macrocirculation forcerous and the capped on the planning of Process Observe Transfer to Quantitative Porcelliting of Proc Norbyeva, Ye.V. Combined the Of the Paradrelization (Marsocirculation of the Method of Porcease Chargeryers, A.S., Transfer of the Year Cyle is independent Titel's, Lia. Prolonged Temperature Effects of the A wallanger of the Cappins of Air Temperature Titel's, Lia. We Polonged Temperature Soakin, I.M. The Level of the Cappins Sea and Solar a dard 3/3  dard 3/3  dard 3/3  |
| ieningrad, Glavnaya geoffellheskaya  Voprosy sinopticheskoy kilmatologii of Symoptic Climatology and Hello, teodradt, 1959.  Bd. Symoptic Climatology and Hello, teodradt, 1959.  Bd. (Intle page) L.A. Vitel's, Candi Symoptic climatology with angular of Taginate of the fermal angular of Taginate of the perall angular of Taginate of the termal regime, mace tion of long-range weather forceas the Capian Sos for the oming ten- sypected colar activity is attempte tion of long-range weather forceas the Capian Sos for the oming ten- sypected colar activity is attempte tion of long-range weather forceas the Capian Sos for the oming ten- sypected colar activity is attempte tion of long-range weather forceas the Capian Sos for the oming ten- sypected colar activity is attempte to of long-range weather forceas the Capian Sos for the Verr Sycrobysve, A.S., Transfer of Water V During Efferent Times of the Year Origor'yeve, A.S., and O.A. Brozdov, Noirobysve, K.S., and O.A. Brozdov, Noirobysve, K.S., and O.A. Brozdov, Noirobysve, Y.V. Combined use of the Julemity of Amospheric Circulation of Additional Circulation title of the Sun and Its Statiation of the Sun and Its Statiation of the Sun and Its Statiation of the Capian Sylvin and Syl | inalingrad. Glavnaya gestivitheskaya Voprosy almoptichesky klimatologii of Samoptic Climatology klimatologii of Samoptic Climatology and Helioteology allogy 10, 200 copies print beologis, 1959. 81 p. 200 copies print beology aluzhy.  M. (Title page): L. Witel's Candig M. (Title page): This is a collection of 8 symoptic climatology with emphasization of pagists in the Eisen of 10 grange foreasing man present of the minerial of the thermal region, marginer, an analysis is gleen of 10 quantitative prestitation force in quantitative prestitation for the margine of the thermal region, margines of the force of company individual artitation of long-range weather forceasing margines of the Thermal Polynova, Ye. V. Combined Use of the Inferior Transfer to quantitative prestitudes of the Thermal Polynova, Ye. V. Combined Use of the Inferior Transfer of Girculation of the Chaptan chart of the Smand of the Statistical Vo Soatin, I.M. The Lavel of the Captan AVILABLE: Library of Congress Gard 3/3  Gard 3/3  Gard 3/3   |
| ieningrad, Glavnaya ge Voproay almopticheskoy of Symoptic Citanatol stop into the Contrast, 120 Sponsoring Agency: USS dheakoy alumby.  Ed. (Title page): L.A. Ed. (This page): L.A. Ed. (This page): L.A. Ed. (This page): L.A. Ed. (This is a co. symoptic citantology symoptic citantology propieties. This is a co. symoptic citantology propieties. This is a co. symoptic citantology propieties. This is a co. symoptic citantology propieties. Of Ed. (This is a co. symoptic citantology propieties. Of Ed. (This is a co. symoptic citantology propieties. Of Ed. (This and Ed. (This co. of Ingerang weekler. And Company it and Contrastic of the therma geophysical relations the Campan San for the therma geophysical relations the Campany it. Campany it. Campany it. Campanity of the Campany it. Campanity of the Campany it. Campanity of the Sun and Carculates of Circulates of Circulates of Circulates of the Sun and Its Sommit it. M. The Level of Wallander Library of Confard 3/3  | leningrad. Glavnaya ge voprosy almopticheskoy of Symptic Climach, 1959. 80 alip inserted. 1,20 Sponsoring Agency: USS dheaded and the field of Title page): L.A. Ed. (Inside book): FURNOSE: These article of Symptic climachook): FURNOSE: These articles of Symptic climachook): The True of Covernose articles of Library of Compliantly of Amongharia company; Tablic Of Complete of Circuit Character of Circuit Cha |
| 13(7)  Leningrad.  Wopro ay all of Syno teolida alip in Sponsoring dheakoy and a construction of the const | Ja(T)  Laningrad.  Voproay all of Synother of Synoher of Synother of Synoher of  |
|  |  |

L.P. SPIRINA

Gayevskaya, G. N.

50-2-22/22

AUTHOR: TITLE:

Conference of Young Experts of the Main Geophysical

Observatory imeni A. I. Voyeykov

(Konferentsiya molodykh spetsialistov Glavnoy geofizicheskoy

observatorii im. A. I. Voyeykova)

PERIODICAL:

Meteorologiya i Gidrologiya, 1958, Nr 2, pp. 61-61 (USSR)

ABSTRACT:

This conference took place from October 28<sup>th</sup> - 29<sup>th</sup>, 1957; assistants of the Leningrad University, of the Arctic Scientific Research Institute, of the All-Soviet Institute for Plant Breeding and others took part in it. Lectures were

held by young scientists of the conference. A. S.

Grigor'yeva's lecture on "the Horizontal Synchronizing Pulse

in the Atmosphere" dealt with the computation of the

atmospheric coefficient on various isobar surfaces with re-

ference to the air current.

L. P. Spirina's lecture dealt with the forecasts of the monthly temperature anomalies with reference to the inertia laws. N. A. Timofeyev reported on the calculations of show melting. On the strength of the known laws by Prandtl and of

the stage law by D. L. Laykhtman, a formula for the

Card 1/3

Conference of Young Experts of the Main Geophysical Chseratory 50-2-22/22 imeni A. I. Voyeykov

computation of the heat-exchange between anow surface and atmosphere with reference to thermal layer formations was obtained and the computation nomographs were represented.

The lecture of Petrenchuk, O. P. "The Frontal Structure of Anticyclones" dealt in detail with the structure of mobile and steady anticyclones as well as with the structure of the troposphere above these. O. I. Golikova reported on the measurement of spectral coefficients of brightness on

laboratory conditions.

Mrs. O. I. Golikova (The Earth Radiation Meter with Wind Shield Filter") and B. I. Gulyayev ("Methods of Observation of the Plant-Physiological Radiation") reported on the development of new actinometric apparatus and the perfection of the existing devices. A method for the detection of the radiation balance according to certain measured values of the summary radiation was suggested by L. N. D'yachenko in his lecture "On the Connection between the Radiation balance and the Total Radiation".

R. L. Kagan reported on a better approximated solution of the equation of the light dispersion according to the method of

Card 2/3

Conference of Young Experts of the Main Geophysical Observatory 50imeni A. I. Voyeykov

50-2-22/22

Schwarzschild ((Shvartsshill'd.))

The lecture held by A. A. Kobyakova, on the application of electronic machines for the preliminary computations of the pressure field was very interesting. The audience was enabled to become acquainted with the works of the young exports of the geophysical main observatory which were written in the time from 1956 to 1957, as well as with a recording device which records the transparency of the atmospheric and was developed and constructed by V. I. Goryshin.

AVAILABLE:

Library of Congress

Card 3/3

SOIRINA

PHASE I BOOK EXPLOITATION

SOV/2270

3(8)

Glavnaya geofizicheskaya observatoriya

Voprosy sinopticheskoy klimatologii (Problems in Synoptic Climatology) Leningrad, Gidrometeoizdat, 1959. 105 p. (Series: Its: Trudy, vyp. 87) 1,100 copies printed.

Sponsoring Agency: Glavnoye upravleniye gidrometerologicheskoy sluzhby pri Sovete Ministrov SSSR.

Ed. (Title page): T.V. Pokrovskaya, Candidate of Geographical Sciences; Ed. (Inside book): T.V. Ushakova; Tech. Ed.: A. N.

PURPOSE: This issue of the Observatory's Transactions is intended for meteorologists and climatologists.

COVERAGE: The authors are primarily concerned with the bility of using various monthly characteristics of atmospheric circulation in forecasting monthly air temperature anomalies.

Card 1/3

SPIRINA, L.P.

Continentality variations of the climate of western Eurasia over a GGO no.111:99-107 '61. (MIRA 15:1) period of many years. Trudy (Climatology)

SPIRINA, L.P.

Change in temperature conditions in Western Siberia and in the European part of the U.S.S.R. in recent deccennaries. Trudy GGO (MIRA 16:2) no.133:26-34 162.

L 13775-65 EWT(1)/FCC Pa-4 AFETR/AEDC(a) GW S/2531/64/000/164/0003/0020

AUTHOR: Pokrovskaya, T. V.; Spirina, L. P.; Sudist, A. P.

TITLE: On the problem of the influence of the underlying surface on the formation of temperature anomalies in the European SSSR in spring

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy\*, no. 164, 1964. Obshchaya I sinopticheskaya klimatologiya (General and synoptic climatology), 3-20

TOPIC TAGS: meteorology, climatology, atmospheric temperature, atmospheric circulation, atmospheric pressure, weather forecasting, long-range weather forecasting

ABSTRACT: This paper gives a comparative evaluation of the influence of the following factors on the value of the mean monthly air temperature in April over the European SSSR: 1) depth of the snow cover toward the end of winter; 2) ice conditions and water temperature anomalies in the Barents Sea in March; 3) temperature anomalies of surface water in the North Atlantic in March; and 4) conditions of atmospheric circulation in October-March. Depth of snow cover was studied at 50 stations; six characteristics were considered. Observational data for the

Card 1/3

L 13775-65 ACCESSION NR: AT4047617

years 1937-1951 were used. The relationship between snow cover parameters and April temperature was expressed poorly (at only 40% of the stations). The relationship between snow cover for the entire European SSSR and April temperature is better than a similar relationship considered for individual stations. The influence of the Barents Sea was considered on the basis of data for 1921-1960. It was found that the higher the temperature of the Barents Sea, the warmer are the Aprils in the European SSSR, and the quantitative indices of the influence of the Barents Sea on April temperatures are quite high. The influences of water temperature in the North Atlantic on April temperatures was determined by analysis of 15 extremely warm and 15 extremely cold years in the North Atlantic; these data were correlated with temperature anomaly data for 17 stations in the European SSSR. It was found that when the Atlantic waters are characterized by a positive anomaly in March there are temperature anomalies of both signs in April which are close to the norm. When there are negative anomalies in March in the waters of the Atlantic there are considerable positive anomalies (1.5-2.0°) in the entire European SSSR. Finally, the influence of the underlying surface was compared with the influence of atmospheric circulation. Years of maximum and minimum development of certain types of circulation were considered. Comparison of maps showing the influence of the four above-mentioned factors revealed that the influence of atmospheric circulation is greatest, although the influence of the Barents Sea is close behind, especially in the extreme north. The influence of

| L 13775-65<br>ACCESSION NR: AT4047617  |                           |                             |
|--|---------------------------|-----------------------------|
| the snow cover and the Atlant<br>the first two factors. It is<br>in long-range forecasting of<br>figures and 4 tables. | April temperature anomal  | les. Orig. art. has: 9      |
| ASSOCIATION: Glavnaya geofi: Observatory)  | zicheskaya observatoriya, | Leningrad (Main Geophysical |
| SUBHITTED: 00  | ENCL: 00                  | SUB CODE: ES                |
| NO REF SOV: 015  | OTHER: 001                |                             |
|  |                           |                             |
|  |                           |                             |
| • Card 3/3   |                           |                             |
|  |                           |                             |

FORROVSHAYA, T.V.; SELARIEL CAR.

Evaluation of the diffect of smed cover on the air temperature in spring in the European pert of the U.S.A.R. Trudy 250 no.181:110-(MIRA 18:10)

LANDYSHEVA, V.A.; RADCHENKO, G.O.; SPIRINA, L.S.; CHERNOV, Ye.N.

Development of the process of surface acetylation of textile fibers. Zhur, prikl. khim. 37 no. 5:1087-1092 My '64.

(MIRA 17:7)

1. Vladimirskiy nauchno-issledovatel'skiy institut sinte-ticheskikh smol.

## SPIRINA, M.N.

Determination of reflection and penetration coefficients of some grid systems using mean values of boundary conditions. Izv.vys.ucheb.zav.; radiotekh. 8 no.4:448-451 Jl-Ag '65. (MIRA 18:11)

1. Submitted November 9, 1964.

ACCESSION NR: AP4043685 S/0109/64/009/008/1509/1513

AUTHOR: Kontorovich, M. I.; Astrakhan, M. I.; Spirina, M. N.

TITLE: Delaying electromagnetic waves by wire screens

SOURCE: Radiotekhnika i elektronika, v. 9, no. 8, 1964, 1509-1513

TOPIC TAGS: conducting screen, wire screen, wire screen antenna

ABSTRACT: A theoretical investigation of delaying electromagnetic waves by two plane-parallel wire screens with rectangular meshes is reported. The theory may be applicable to a Barry-Miller antenna (Aviat. Week, 1963, 79, 10, 80-82, 85). In the case of a soldered screen with a square mesh, the TE-wave is not delayed, while the TM-wave propagating along the z-axis without attenuation has a phase velocity  $v_{\phi} = \frac{c}{\gamma/k}$ , where  $\gamma/k > 1$  and can be determined from this equation:

$$kh = \frac{1}{2\sqrt{(\gamma^2/k^2)} - 1} \ln \left[ 1 - \frac{2a}{\lambda} \ln \frac{a}{2\pi r_0} \frac{1 - 0.5(\gamma^2/k^2)}{\sqrt{(\gamma^2/k^2)} - 1} \right],$$

Card 1/2

ZHILTOWELY, L.K.; STIVING, M. C.

Comparative data of the biological and colorinative methods in the control of the activity of preparations containing pardiag glyccatdes. Apt. delo 11 nc.6:70-72 N-0 185.

(MIRA 18812)

1. Cmskayu objustnave kontroline-aneliticheskaya laboratoriya aptakoupravlenija.

SPIRINA, N.I., inzh.

Neasuring river current velocities. Izv. Inst. gidrol. i gidr. AN
URSR 8:20-28 \*51.

(Stream measurements) (Flowmeters)

(Stream measurements)

PYSHKIN, B.A., red.; ARISTOVSKIY, V.V.[Aristovs'kyi, V.V.], doktor tekhn.
nauk, red.; DYATLOVITSKIY, L.I. [Diatlovyts'kyi, L.I.], kand. tekhn.
nauk, red.; SPIRIN, G.M. [Spirin, H.M.], red.; SPIRINA, N.I., red.;
PECHKOVSKAYA, O.M.[Pechkovs'ka, O.M.], red. izd-va; RAKHLINA, N.P.,
tekhn. red.

[Investigating the stressed state of hydraulic structures] Doslidzhennia napruzhennoho stanu hidrotekhnichnykh sporud; sbirnyk naukovykh prats'. Kyiv, 1961. 149 p. (MIRA 14:10)

1. Akademiya nauk URSR, Kiev. Rada po vyvchenniu produktyvnykh syl URSR. 2. Chlen-korrespondent AN URSR (for Pyshkin).

(Hydraulic structures)

SPIRINA, P.V., aspirant

Arterial pressure in young people. Sow.med. 25 no.1:55-58 Ja '62. (MIRA 15:4)

1. Iz gospital noy terapevticheskoy kliniki (zav. - prof. A.I. Germanov) Kuybyshevskogo meditsinskogo instituta (dir. - kand.med. nauk D.A.Voronov).

(BLOOD PRESSURE)

GUSEVA, N.I., dotsent; SPIRINA, P.V., aspirant

Norms of arterial pressure and occurence of hypertension among some contingents of the population of the city of Kuybyshev. Kaz. med. zhur. no.1:14-16 Ja-163. (MIRA 16:8)

l. Gospital naya terapevticheskaya klinika (zav. - prof. A.I. Germanov) Kuybyshevskogo meditsinskogo instituta.

(KUYBYSHEV—HYPERTENSION)

SPIRINA, P.V., aspirant

Electrocardiograms in hypertension in adolescents and youths. Kaz. med. zhur. 4:17-18 Jl-Ag\*63 (MIRA 17:2)

1. Gospital naya terapevticheskaya klinika (zav. - prof. A.I. Germanov) Kuybyshevskogo meditsinskogo instituta.

| UTHOR: Dubrovo, S. K. (Candidate of chemical sciences); Shnypikov, A. D. (Engineer); Innypikova, L. G. (Engineer); Spirina, S. D. (Engineer)  ORG: Institute of Chemistry of Silicates Imeni I. V. Grebenshchikov (Institut   |
|---|
| RG: Institute of Chemistry of Silicates Imeni I. V. Grebenshchikov (Institut  |
| himii silikatov)  |
| PITLE: DG-3 glass for use in chemical laboratories where resistance to alkaline solutions is required   |
| SOURCE: Steklo i keramika, no. 5, 1966, 13-15   |
| COPIC TAGS: laboratory glassware, glass manufacturing machinery, molybdenum glass, alkali, crystallization  |
| ABSTRACT: The authors discuss the production and properties of DG-3 glass. This glass is based on the $Na_2O-R_2O-ZrO_2-SiO_2$ system. Admixtures of lanthanum and lithium oxides are used to improve founding properties. The new glasses have coefficients of linear expansion $\alpha_{20-400}$ which vary from 57 to $87 \cdot 10^{-7}$ per degree. DG-3 glass is being used for producing chemical laboratory glassware and tubes. The apparatus for founding DG-3 glass is described. The density of this glass is 2.711 and the thermal stability, is $148^{\circ}$ . The temperature at which it begins to soften is about $700-710^{\circ}$ . Crystallization did not occur when the glass was heated from 500 to $1200^{\circ}$ over a three-hour |
| Card 1/2 UDC: 666.117.4   |

32961-66

ACC NR: AP6016926

period. Tables are given showing the relative resistance of chemical laboratory glass to alkaline solutions. DG-3 glass surpasses all commercial chemical laboratory glass in resistance to alkaline solutions, and particularly to mixtures of sodium hydroxide and soda. DG-3 glass satisfies all GOST requirements for water resistance and acid resistance. This standard covers glass category XV-1, first class chemical stability. DG-3 forms good joints with No. 29, 23 and molybdenum glass! Orig. art. has: 4 figures, 2 tables.

SUB CODE: 07, 11 SUBM DATE: 00/ ORIG REF: 004/ OTH REF: 001

Card 2/2 0 0

ZUBOV, M.F.; FEDOSEYENKO, L.G.; SANIN, M.A.; PIVOVAROVA, T.M.; ZIL'BERMINTS, I.V., kand. biolog. nauk; FADEYEV, Yu.N., kand. sel'skokhoz. nauk; ZHURAVLEVA, L.M.; KIPIANI, A.A., aspirant; MEL'NIKOV, N.N.; BOCHAROVA, L.P.; SHVETSOVA-SHILOVSKAYA, K.D.; SHAPOVALOV, G.K.; SPIRINA, T.A.; SEDYKH, A.S.; ZINCHENKO, V.A., aspirantka

From experiments in the use of new preparations. Zashch. rast. ot vred. 1 bol. 8 no.10:24-26 0 '63. (MIRA 17:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh sredstv zashchity rasteniy (for Zubov, Fedoseyenko, Sanin, Pivovarova). 2. Gruzinskiy institut zashchity rasteniy (for Kipiani). 3. Moskovskaya ordena Lenina sel'skokhozyaystvennaya akademiya im Timiryazeva (for Zinchenko).

#### CIA-RDP86-00513R001652710018-0 "APPROVED FOR RELEASE: 08/25/2000

SITRIFA, V. "-SHIRITA, V.M.: "The use of stream pures in results and through well shefts." Min A riculture USCR. All-Union Sci Res Inct of Mydraulic Encineering and Soil Improvement. Kisv, 1956 (Dissertation For the Degree of Gordidate in Technical Sciences) So. Knizhnega Letojis!, No. 18, 3956

SPIRINA, V.M.

99-58-5-2/10

AUTHORS:

Yerokhin, N.A., Candidate of Technical Sciences; Spirina, V.M.

TITLE

ways of Reducing the Expense of the Rural Water Supply in the Ukrainian SSR (Puti snizheniya zatrat na sel'skoye vodosnabzhe-

niye v Ukrainskcy SSR)

PERIODICAL:

Gidrotekhnika i Melioratsiya, 1958, Nr 5, pp 8-18 (USSR)

ABSTRACT:

The construction of centralized or local water supply lines, together with the building of pumping, transportation and distributing installations is at present the most important task in the Ukraine. This republic is one of the leaders in the union in the number of artesian wells constructed yearly. Between 1955 - 1957, 6,919 new wells were drilled there. To reduce the costs of the construction of rural water lines, to reduce the costs of the construction of rural water lines, the central powers must develop and modernize conditions and standards. In the construction of new artesian wells, a combined system of drilling - rotor and percussive - should be used. The use of specially constructed filters, is also used. The use of asbestos cement pipes. Unfortunate-advised, as is the use of asbestos cement pipes. Unfortunate-ly, deliveries of these pipes are still inadequate and force builders to use the more expensive cast iron ones. The

Card 1/2

99-58-5-2/10 ways of Reducing the Expense of the Rural Water Supply in the Ukrainian SSR

authors recommend the use of a universal hydrant without cups constructed by the Engineer Rogozhkin, which will not freeze-up. The use of bacterycidal rays for the sterilization of water is recommended; it works automatically and no reagents need to be added to the water.

There are 6 drawings.

AVAILABLE: Library of Congress

Card 2/2 1. Water supplies-USSR 2. Water supplies-Costs 3. Agriculture-USSR

i. Irrigation systems - Costs

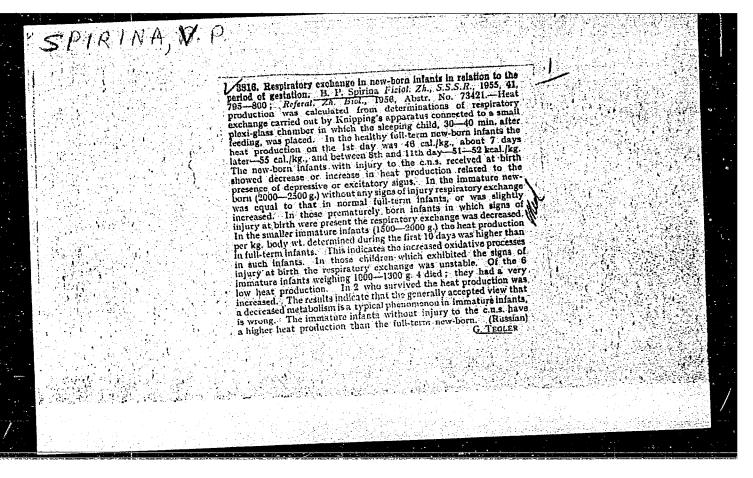
Porous concrete drainage in slow filters. Gidr.i mel. 13
no.7:44-50 Jl '61.

(Water-Purification) (Filters and filtration)

(Water-Purification)

Service the Advance of Tomation of Tomations, all Jep 54. (N., 10 Sep 54)

Service 4,32, 20 for 55



| 1 4 | Jourtry<br>Jatogory          | : | USGR Human on Animal Physiology. The Physiology of Age. 106082   |
|-----|------------------------------|---|--|
|     | aba. Jour.                   | : | Ref Thur-Biol., %0 23, 1996, 100000  |
| .   | Author<br>Institut.<br>Title | : | Spiring, V. F.  The Incluence of Positive Emotion 1 State on Iun Ventilation, Gas Metabolism, and, and on Iun Ventilation, Gas Metabolism, and, and Chornel Cutput in C-2 Year: Old Children with* Chornel Cutput in C-2 Year: Old Children with*  |
|     | Orig Pub.                    | : | Top: Orall all   |
|     | Abstract                     | : | An increase of lung ventilation (LV), UG2 dis-<br>sharps, and thermal output was noted in all<br>children (17) who were in a positive enotional<br>children contract by a slide denonstration of<br>state produced by a slide denonstration of   |
|     |                              |   | of the fadry tiles. The consumption of U2 into of the fadry tiles. The consumption of U2 into of the fadry tiles. The consumption of U2 into of the fadry tiles. The consumption of U2 into of of U2 in |
|     |                              |   | processes of cortical activity showed a some-<br>bal need cortical processes (7) showed a some-<br>hal need cortical processes (7) showed a some-<br>hard decreased C2 consumption. The above of the   |
|     |                              |   | 1/3<br>*Different Typological Trand, of Higher Marvous   |

SPIRINA, V.P., kand.med.nauk

Pulmonary ventilation, gas exchange and heat production in four-to-six-old children with various types of the higher nervous activity. Pediatrila no.9:24-28 S 157. (MIRA 10:12)

1. Iz otdela fiziologii (zav. - doktor meditainskikh nauk N.Ye. Ozeretakovakaya) Nauchno-isaledovateliskogo inatituta pediatrii RSFSR (dir. - kandidat meditainskikh nauk V.N.Karachevtaeva.. (NERVOUS SYSTEM) (RESPIRATION)

ANISOVA, A.A., ZHMEYDO, A.T., GORBUNOVA, V.I. SPIRINA, V.P.

Vitamin C indexes in preschool children. Pediatriia 36 no.6:56-59

Je 158

1. Iz otdela fiziologii Instituta pediatrii Ministerstva zdravookhraneniya RSFSR (zav. - doktor med.nauk N.Ye. Ozeretskovkaya)
i A.D.E. vitaminnogo otdela (zav. - prof. S.N. Matsko) Instituta
vitaminologii Ministerstva zdravookhraneniya SSSR.

(VITAMIN C, metab.
utilization, eff. of decreased allottment in preschool child. (Rus))

(CHILD eff. of decreased vitamin C allottment on preschool age child. (Rus))

SPIRINA, Valentina Petrovna, kand.med. nauk; PCTAPOVA, I.N., red.;
PRONINA, N.D., tekhn. red.

[What you should know about building up children's resistance]
Chto nado znat' o zakalivanii detei. Moskva, Medgiz, 1962.

(MIRA 16:1)

19 p. (CHILDREN-CARE AND HYGIENE)

SPIRINA, V.P.; CHERNIKOVA, A.P.

Work of preparing scientific pediatric pediatric personnel. Vop.okh.mat.i det. 7 no.9:67-71 S '62. (MIRA 15:12)

1. Iz Nauchno-issledovatel skogo pediatricheskogo instituta Ministerstva zdravookhraneniya RSFSR, Moskva. (PEDIATRICS—STUDY AND TEACHING)

SPIRINA, Valentina Petroyna, kand.med.nauk

"Infantile problems." Izobr.1 rats. no.3:26-29 '63.

(MIRA 16:4)

1. Direktor Gosudarstvennogo nauchno-issledovatel'skogo
pediatricheskogo instituta Moskvy.

(INFANTS...CARE AND HYGIENE)

Regime of a preschool child. Zdorov'e 9 no.3:25-26 Mr '63. (MIRA 16:5)

(CHILDREN—CARE AND HYGIENE)

MESHCHERYAKOV, A.F., inzh.; PROVODIN, S.S., inzh.; KALINOVSKAYA, Ye.Ya., inzh.; SHOLOKHOV, A.N., inzh.; DUMESH, S.Ye., inzh.; SPIRINA, Ye.I., inzh.; ZATONSKAYA, M.I., inzh.; ZARILOVA, T.A., tekhnik; LITINA, L.A., tekhnik; SHCHERDYUKOV, Ya.I., otv. red.

[Index to an illustrated map of Moscow] Ukazatel' k illiustrirovannoi skheme Moskva. Moskva, 1957. 47 p. (MIRA 15:2)

1. Moscow. Arkhitekturno-planirovochnoye upravleniye. (Moscow--Directories)

SPIKINH, KK.

design the high of the presentation of the second

14-1-304

Translation from: Referativnyy Zhurnal, Geografiya 1997, Nr 1, p. 24 (USSR)

AUTHORS:

Kamysheva-Yelpat'yevskaya, V. G. and Spirina, V. V.

TITLE:

Microfauna of the Upper Pliocene and Post Pliocene deposits in the Area between the Volga and the Ural Rivers, and its Stratigraphic Significance (Mikrofauna verkhnepliotsenovykh i postpliotsenovykh otlozheniy mezhdurech'ya Volga - Ural i yeye stratigraficheskoye

znacheniye)

PERIODICAL: Uch. zap. Saratovsk. un-ta, 1955, Mr 45, pp. 63-71

ABSTRACT:

The characteristic vertical distribution of Ostracoda in the upper Pliocene and in the quaternary deposits of the area between the Volga and the Ural rivers is described. Various remains of Ostracoda have been encountered at a depth of 7 to 35 m in the sand and clay formations of the Khwalyn' and Khazar strata. Such deposits are characteristic of the quaternary as well as of the upper Pliocene periods, which precludes the possibility of drawing a clear line of demarcation between these two formations. The presence of Caspiella dorsoarcuata (Zal.) indicates the Baku stage. Rich and

Card 1/3

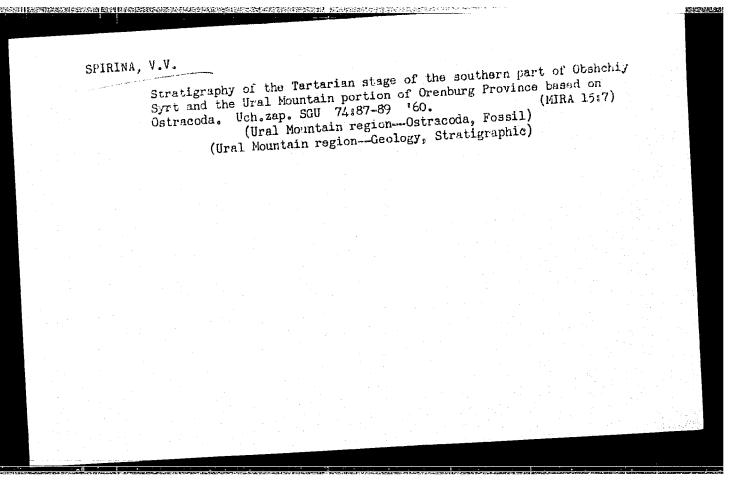
14-1-304

Microfauna of the Upper Pliocene and Post Pliocene deposits in the Area between the Volga and the Ural Rivers, and its Stratigraphic Significance

varied deposits of Ostracoda characteristic of the Apsheron stage in regions lying further south have been found at a depth of 35 to 70 m. [Latin names of different Ostracoda species given in the abstract are omitted in the present translation]. An analysis of the vertical distribution of Ostracoda in the test well indicates Ostracoda fossils peculiar to the Khvalyn', Khazar, Baku and Apsheron layers in the Pliocene and post Pliocene deposits found in the area beyond the Volga.

It is pointed out that in the region beyond the Volga certain characteristic Ostracoda were found in some of the upper strata at a higher level than in Microfauna of the Upper Pliocene and Post Pliocene Deposits in the area between the Volga and the Ural Rivers, and its stratigraphic significance.

Card 2/3



MESHCHERYAKOV, A.F., inzh.; PROVODIN, S.S., inzh.,; KALINOVSKAYA, Ye.Ya., inzh.; SHOLOKHOV, A.N., inzh.; DUMESH, S.Ye., inzh.; SPIRINA, Ye.I., inzh.; ZATONSKAYA, M.I., inzh.; ZARILOVA, T.A., tekhnik; LITINA; L.A., tekhnik; SHERDYUKOV, Ya.I., otv. red. [Index to an illustrated map of Moscow] Moskva; ukazatel' k il-

liustrirovannoi skheme. Moskva, 1957. 47 p.

1. Mosgorgeotrest, Moscow. (Moscow-Maps-Indexes)

CIA-RDP86-00513R001652710018-0" APPROVED FOR RELEASE: 08/25/2000

SPIRINA, Ye.Ya.; VIL'YAMSON, V.I.

Extend the use of arsenic preparations in the protection of grain crops. Zashch.rast.ot vred.i bol. 7 no.5:25-26 My (MTRA 15:11)

1. Glavnyy agronom po zashchite rasteniy Stavropol'skogo upravleniya proizvodstva i zagotovok sel'skokhozyaystvennykh produktov (for Spirina). 2. Nachal'nik otryada po bor'be s verditelyami rasteniy Stavropol'skogo upravleniya proizvodstva i zagotovok sel'skokhozyaystvennykh produktov (for Vil'yamson).

(Stavropol Territory--Plants, Protection of) (Arsenic compounds)

33498 s/195/61/002/005/026/027 E194/E412

5.4300

The energy of activation of radical reactions

AUTHOR: TITLE:

PERIODICAL: Kinetika i kataliz, v.2, no.5, 1961, 801-802 To determine the influence of the structure of chemical

compounds on their reactivity in radical reactions, one may use a qualitative comparison of relationships obtained during quantummechanical consideration of the problem of interaction of three atoms a-b-c, with experimental data on the energy of For this purpose the system energy is presented as activation. follows:

$$E = Q + \left(\frac{ab + bc}{2} - ac\right) \left[1 + \frac{3}{4} \frac{(ab - bc)^{2}}{\left(\frac{ab + bc}{2} - ac\right)^{3}}\right]^{1/3} \simeq$$

$$\simeq Q + \left(\frac{ab + bc}{2} - ac\right) \left[1 + \frac{3}{8} \left(\frac{ab - bc}{2} - ac\right)^{2}\right], \tag{1}$$

Card 1/5

33498 s/195/61/002/005/026/027 E194/E412

The energy of activation ...

where ab, bc, ac are volume integrals in the system a-b-c; Q is the Coulomb integral. The energy of activation  $E_0$ of the reaction a + bc = ab + c is governed by the value of  $E_{\rm O}=E+D_{\rm bc}$  at the point for which the extremal conditions are valid

 $\frac{dE}{dr_{ab, bc, ac}} = 0 \text{ n } \frac{dE}{dr_{ab}} = \frac{dE}{dr_{bc}},$ (2)

is the bond energy bc; rab, bc, ac are interatomic
The values ab, bc and ac may be replaced by Morze where Dbc potentials and Coulomb integrals (Q = Qab + Qbc + Qac) and determined as the energy of van der Waal's interaction, for instance

 $Q_{ab} = -\frac{3}{r} \frac{P_a P_b}{r_{ab}^6} \cdot \frac{J_a J_b}{J_a + J_b} + \frac{k}{r_{ab}^{12}},$ 

J the where P is the bond polarizability of the atom; ionization potential; k a constant. Neglecting small terms, Eq.(1) may be written in the following form

Card 2/5

33498

S/195/61/002/005/026/027 E194/E412

The energy of activation ...

$$E = 2D_{ac} e^{-\beta_{ac} x_{ac}} + \frac{D_{ab}}{2} (1 - e^{-\beta_{ab} x^{ab}})^{3} + \frac{Q_{ab} + Q_{bc}}{2} A H \left(\frac{1}{1 - \frac{3}{1 - \frac{3}}}}}}}{1 + \frac{3}{1 - \frac{3}{1 - \frac{3}{1 - \frac{3}{1 - \frac{3}{1 - \frac{3}{1$$

$$+\frac{D_{bc}}{2}(1-e^{\beta_{bc}x_{bc}})^{2}+\frac{Q_{ab}+Q_{bc}}{2}-\Delta H\left(\frac{1}{2}-\frac{3}{4}\frac{\Delta H}{D_{bc}+D_{ab}}\right).$$

(3)

where

$$x = r - r_0$$
;  $\Delta H = D_{ab} - D_{bc}$ .  $\frac{ab - bc}{\frac{ab + bc}{2} - ac} \simeq \frac{2\Delta H}{D_{ab} + D_{bc}}$ ;  $\beta$  - constant.

Eq.(3) together with conditions (2) and the equation  $r_{ac} = r_{ab} + r_{bc}$  should determine the value of the energy of activation and its change in a number of reactions as function of the characteristics of the initial and final products. However, the characteristics of the initial and final products. However, it is very inconvenient to use this equation and some simplification is necessary. It will easily be seen that for reactions in which the value of the van der Waal interaction may be neglected or assumed constant (atoms of low polarizability) there should be a relationship of the type

$$E_0 \sim \alpha D_{ac} e^{-\beta_{ac} x \dot{a}c} - K \Delta H$$

$$\alpha \simeq \left[2 + \frac{D_{ac}}{2}\beta_{ac}^2 e^{-\beta_{ac}x_{ac}} \left(\frac{1}{D_{ab}\beta_{ab}^2} + \frac{1}{D_{bc}\beta_{bc}^2}\right)\right],$$

Card 3/5

33498 s/195/61/002/005/026/027 E194/E412

The energy of activation ...

leading for a number of exchange reactions of a given atom with changes in the opposite sense of  $D_{ac}$  and  $\Delta H$  to Polyani's rule. Here, the coefficient

 $K = \left(\frac{1}{2} - \frac{3}{4} \left( \frac{\Delta H}{D_{ab} + D_{bc}} \right) \right)$ 

In reactions involving easily polarized atoms deviation should be observed from the linear is close to that in Polyani's rule. relationship between  $E_0$  and  $\Delta H$ . This explains the anomalous behaviour of atoms of  $C_1$ ,  $B_r$  and others in radical reactions (4). The following expression was derived for exothermal reactions

 $E_o = 0.066 (0.75 D_{ac} - \Delta II) \left( \frac{1}{P_a} + \frac{1}{P_c} \right)$ 

which expresses relationship (3) qualitatively and gives better agreement with experiment than Polyani's rule. The author thanks V.I.Osherov for considering this work. There are 4 references: 1 Soviet-bloc, 1 Russian translation from non-Soviet-bloc publication and 2 non-Soviet-bloc. The two references to English Car 4/5

SPIRIT, J.; FECH, R.

Long-term creep tests of steel. p. 289. (Strojirenstvi, Vol. 7, No. 4, Apr 1957, Praha, Czechoslovakia)

So: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

|          | L 1336-66 - EWT(m)/EWA(d)/EWP(t)/EWP(k)/EWP(z)/EWP(b)/EWA(c) JD/HW ACCESSION NR: AP5022054 CZ/0034/65/000/009/0678/0678   |
|----------|---|
|          | AUTHOR: Spalovsky, F. (Engineer); Spirit, J. (Engineer)   |
|          | TITLE: Method of cold forming steel, especially stainless-steel sheet and wire parts  |
|          | SOURCE: Hutnicke listy, no. 9, 1965, 678  |
|          | TOPIC TAGS: steel, stainless steel, steel sheet, steel wire, lubricant, organic lubricant, sheet forming, cold forming, wire forming, cold forming lubricant  |
|          | ABSTRACT: This Czech patent introduces a lubricant for use in cold forming of steel sheet and wire parts. The lubricant forms a viscous, elastic, protective film which adheres tightly to metal, increases the service life of the forming tools, makes it possible to obtain parts with a perfectly smooth surface, and improves working conditions. It is made of a water emulsion of polywinyl acetate and 1—15% of a softener such as dibutyl phthalate, dioctyl adipate, or a mixture of both, and contains no harmful organic solvents. [WW] |
|          | ASSOCIATION: none   |
|          | Card 1/2  |
| <u> </u> |   |

| _L_1336-66  |               |            |               |  |
|-------------|---------------|------------|---------------|--|
| ACCESSION 1 | NR: AP5022054 |            |               |  |
| SUBMITTED:  | 14Dec64       | ENCL: 00   | SUB CODE: FP, | M  |
| NO REF SOV  | : 000         | OTHER: 000 | ATD PRESS: 40 | 192  |
|             |               |            |               |  |
|             |               |            |               |  |
|             |               |            |               |  |
|             |               |            |               |  |
|             |               |            |               |  |
|             |               |            |               |  |
|             |               |            |               |  |
|             |               |            |               |  |
|             |               |            |               |  |
| ما          |               |            |               |  |
| Card 2/2    |               |            |               |  |
|             |               |            |               | the state of the s |
|             |               |            |               | ing the same and the   |

THANNEBAUER, Vladimir, inz.; SPIRIT, Jiri, inz.

We shall take a lesson from the new organization of scientific and technical information in the Soviet Union. Podnik organizace 16 no.12:554-557 D '62.

CATEGORY:

AB3. JOUR.: AZXhim., so. 1950, so. 85933

AUTHOR: Spirlyev, B.

TMET.: Mineral oprings scar the Villages of Banya and Byta in the Panagyursk District

CRIA. PUB.: Khidrol.: meteorologiya, 1959, No. 2, 47-53

ABBERAOT: Analyses are given of the ionic composition of Jabers of the springs under study. They are allow the sulface - mildion-sodium type. -- V. Konshin.

SPIRKIN, I., gornyy master; KAVALEROV, P., brigadir navalootboyshchikov,

Collective labor is our strength. Mast.uglia 5 no.1:9-11 Ja '56.

(MLRA 9:5)

(Chelyabinsk Basin--Coal mines and mining)

SPIRKIN, I.; KORBOV, M.

Rights and duties of efficiency experts. Sots. trud 6 no.4: (MIRA 16:7) 96-98 Ap '61.

1. Nachal'nik otdela truda i zarabotnoy platy Lyuberetskogo zavoda sel'skokhozyaystvennogo mashinostroyeniya im. Ukhtomskogo (for Korbov). (Production standards)

. . . . . .

|  | no.4: | 34-35 Ap | '63 | Laun.<br>• | ew lor<br>Provis | ПВ 0. | Indust | rial | mana                | Mashino:<br>gement) | (MIRA | 16:5)   |   |
|--|-------|----------|-----|------------|------------------|-------|--------|------|---------------------|---------------------|-------|---------|---|
|  |       |          |     | (Д,        |                  |       | •      |      |                     |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     |                     |       |         |   |
|  |       |          |     |            | 1                |       |        |      |                     |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     | *                   |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     |                     |       |         | 1 |
|  |       |          |     |            |                  |       |        |      | •                   |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      |                     |                     |       |         |   |
|  |       |          |     |            |                  |       |        |      | $\{(-1,-1),\ldots,$ |                     |       | * * * * |   |

| L 8076-66 EWT(m)/EPF(c)/T/EWP(t)/EWP(b) IJP(c) JD/WE  SOURCE CODE: UR/0204/65/005/005/0741/0746   |
|---|
| L 8076-66 EWT(m)/EPF(c)/T/EWP(t)/EWP(b) IJP(c) JD/WE  ACC NR: AP5026461 SOURCE CODE: UR/0204/65/005/005/0741/0746   |
| AUTHOR: Chertkov, Ya. V.; Spirkin, V. G.; Demishev, V. N.   |
| ORG: Moscow Institute for the Petrochemical and Gas Industry im. I. M. Gubkina  |
| (Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti)   |
| TITLE: Use of sulfuric acid for extracting organic sulfur compounds from petrole-   |
| $=$ 27 A 11 $\cdot$ 28 A 5 1965 741-746/  |
| TOPIC TAGS: petroleum, petroleum refining, petroleum product, organic sulfur compound, solvent extraction   |
| ABSTRACT: Optimum laboratory conditions were worked out for the selective extraction of sulfur compound from Arlansk petroleum fractions boiling in the 150-325 C range and containing 1.57 wt.% of sulfur. About 70% of the sulfur compounds were recovered without significantly changing their composition by extracting with aqueous sulfuric acid solutions. A two-stage treatment of the crude with 86% aqueous sulfuric acid at room temperature, atmospheric pressure, and extractant: crude ratio=1:5 removed half of the initial sulfur compounds. Additional sulfur compounds were extracted with 91% aqueous sulfuric acid, extractant:crude=1:5. |
| Card 1/2 UDC:665.547.93;546.226-325;542.61  |
| <del>트로스</del>  |

|  | L 8076-66  ACC NR: AP5026461  The sulfur compounds and resins were almost completely dilution, the resins were precipitated and the decar two hours with fuller's earth. The sulfuric acid was sulfur compounds, containing over 14 wt. % sulfur confides. They can be readily vacuum or steam distilled or yellowish transparent liquids. Orig. art. has: 2 to or yellowish transparent liquids. | regenerated. asisted almost entirely of sul- is the distillates are colorless ables, 2 figures and 1 equation |
|--|---|---|
|  | or yellowish transparent inquides.  SUB CODE:OC, GC/ SUBM DATE: 10Nov64/ ORIG R   |   |
| The state of the s | Card 2/2 PW   |   |

|       |  | · ·       |
|-------|--|-----------|
|       | 1884 1887 270014   | 1         |
| ·     | 22697-66 ENT(m)/T DJ/WE SOURCE CODE: UR/0318/66/000/001/0012/0014  |           |
| L     | 22697-66 EWT(m)/T DJ/WE SOURCE CODE: UR/0318/66/00070027 CC NR: AP6007938  3 9 3 9   |           |
| A     |  |           |
|       | P. Snirkin, V. G.; Demishev, V. II.  | •         |
|       | UTHOR: Chertkov, Ya. B.; Spirkin, V. G.; Demishev, V. N.   |           |
| A     | B B  |           |
|       | RG: MINKh1GP   |           |
| O     | TITLE: High grade [jet] fuel fractions from Arlan crude oil  |           |
| - '   | I amade [jet] fuel fractions from Allan  |           |
| T     | ITLE: High grade (jet) 1002  |           |
|       | - 1 17UU4 AP -   |           |
| S     | SOURCE: Neftepererabotka i neftekhimiya, no. 1, 2000<br>TOPIC TAGS: jet fuel, desulfurization, solvent extraction/TS-1 jet fuel, T-1 jet fuel  | - 1 - 2 I |
| Ŭ     | 15 solvent extraction/15-1   |           |
| 7     | ropic TAGS: jet fuel, desulturization,   |           |
|       |  |           |
|       | arian crass acid solutions and area area area iet  | 1 T       |
| •     | Arlan crude oil  ABSTRACT: Solvent extraction with 86 and 91% aqueous sulfuric acid solutions in 1/5  solvent/feed ratio at 15—20C and atmospheric pressure has been used to produce jet  solvent/feed ratio at 15—20C and atmospheric pressure from Arlan fields. It is fuel components from the 150—325C sour crude-oil fraction from such crudes fuel components from the 150—325C sour crude-oil fractions from such crudes  |           |
|       | ABSTRACT: Solventing at 15—20C and atmospheric of fraction from Arlan fields.  |           |
| •     | solvent/feed the from the 150-325C sour crude-of-bt-run fuel fractions from such critical  |           |
|       |  |           |
|       |  |           |
|       |  |           |
|       |  |           |
| 1     | -Laarhanie Learnay   | 8         |
| 1     |  |           |
| 1.    | absorbable resins. The idea of the solvent extractions without decomposing them, absorbable resins. The idea of the solvent extraction. Sulfide concentrates containing compounds—new raw materials for petrochemical usage—without decomposing them, compounds—new raw materials for petrochemical usage—without decomposing them, sufficiently reserving the composition of the hydrocarbon portion. Sulfide concentrates containing preserving the composition of the hydrocarbon portion. Sulfide concentrates containing preserving the composition of the hydrocarbon portion. Sulfide concentrates containing preserving the composition of the hydrocarbon portion. Sulfide concentrates containing preserving the composition of the hydrocarbon portion. Sulfide concentrates containing preserving the composition of the hydrocarbon portion. Sulfide concentrates containing preserving the composition of the hydrocarbon portion. Sulfide concentrates containing preserving the composition of the hydrocarbon portion. Sulfide the solvent was preserving the composition of the hydrocarbon portion. Sulfide the solvent was preserving the composition of the hydrocarbon portion. Sulfide concentrates containing preserving the composition of the hydrocarbon portion. Sulfide concentrates containing preserving the composition of the hydrocarbon portion. Sulfide concentrates containing preserving the composition of the hydrocarbon portion. Sulfide concentrates containing preserving the composition of the hydrocarbon portion. Sulfide concentrates containing preserving the composition of the hydrocarbon portion. Sulfide concentrates containing preserving the composition of the hydrocarbon portion of the hydrocarbon portion.   |           |
| ,     | preserving and sulfur were produced. Artificate, straight atmospheric distributes and reffinate, straight atmospheric distributes and reffinate, straight atmospheric distributes and reffinate atmospheric distributes and reffinate atmospheric distributes and reffinate atmospheric distributes at the reffinate atmospheric distributes  | • I _ 3   |
| i     | 9.3-13.4% to the desulturized latitude fractions which exceeded most require   | 2         |
| i     | fully regenerated.   |           |
|       | 9.3—13.4% total sulfur were produced. After removable atmospheric distributes 9.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced. After remove 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.3—13.4% total sulfur were produced raffinate, straight atmospheric distributes 19.4% total sulfur were produced raffinate, straight atmospheric distributes 19.4% total sulfur were produced raffinate 19.4% total sulfur were produced raffinate 19.4% total sulfur were produced |           |
| 1     | UDU: OOS.OS  | 100       |
| 1     | Card 1/2   |           |
|       | A Approximation of the Approxi | ,         |
| · · • |  |           |

|                            | 6007938   |         |                    |                        | \                   |                      |                      |                        | 豆豆          |
|----------------------------|-----------|---------|--------------------|------------------------|---------------------|----------------------|----------------------|------------------------|-------------|
| ments of GC<br>characteris | tic was v | ery fav | orable,            | which sh               | ould ens            | ure sati             | sfactory             | atomiza                | tion and    |
| good flow a<br>also expect | nd antiwe | ar prop | erties.<br>Only th | i Anticar<br>e freezin | bon-form<br>g point | ning and<br>was unsa | combusti<br>tisfacto | lon prope<br>orv (minu | erties were |
| the 150—26                 | OC fracti | on and  | minus 4            | OC for th              | e 1502              | 80C fract            | ion) so              | that the               | distil-     |
| lates are n<br>availabilit | y, howeve | r, incr | eases po           |                        |                     |                      |                      |                        |             |
| USSR. Orig                 | . art. ha | s: 1 t  | able.              |                        |                     |                      |                      | v.                     | [SM]        |
| SUB CODE:                  | 21/ SUBM  | DATE:   | none/              | ORIG REF               | : 006/              | OTH REF              | : 004/               | ATD PRE                | SS:4216     |
|                            |           | ,       |                    |                        |                     |                      |                      |                        |             |
|                            |           |         |                    |                        |                     |                      |                      |                        |             |
|                            |           |         |                    |                        |                     |                      |                      |                        |             |
|                            |           |         |                    |                        |                     |                      |                      |                        |             |
|                            |           |         |                    |                        |                     |                      |                      | · ·                    |             |
|                            |           |         |                    |                        |                     |                      |                      |                        |             |
|                            |           |         |                    |                        |                     |                      |                      |                        |             |
|                            |           |         |                    |                        |                     |                      |                      |                        |             |
|                            |           |         |                    |                        |                     |                      |                      |                        |             |
|                            |           |         |                    |                        |                     |                      |                      |                        |             |

ENI(m)/ENF(j)/I 45887-66 SOURCE CODE: UR/0204/66/006/002/0309/03 (A)AP6023962 ACC NR: Chertkov, Ya. B.; Spirkin, V. G.; Demishev, V. N. AUTHOR: ORG: Moscow Institute of Petrochemical and Gas Industry im. Gubkin (Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti) TITLE: Characteristics of stable sulfur compounds of middle fractions of Arlan petroleum / SOURCE: Neftekhimiya, v. 6, no. 2, 1966, 309-311 TOPIC TAGS: organic sulfur compound, aromatic hydrocarbon, petroleum product ABSTRACT: It had been shown earlier that when thiophene, its homologs, and benzothiophene derivatives, all belonging to the group of "residual" or "undeterminable" sulfur compounds (as opposed to mercaptans, sulfides, and disulfides), are introduced into jet fuels, the properties of the latter are not lowered. In the present study, sulfides were completely removed from the 150-325° fraction of high-sulfur Arlan petroleum by selective extraction with 86-91% sulfuric acid, and the sulfur content of the fraction thus dropped from 1.57 to 0.5 wt. %. After the removal of sulfides, the fraction displayed a high thermal-oxidative stability. The residual sulfur compounds present in the fraction were then extracted with 92 and 93% sulfuric acid. These compounds, containing about 30% of the total sulfur originally present in the fraction, had no negative effect on the thermal stability or corrosion activity of hydrocarbon UDC: 665.547.93 (470.52) Card 1/2

SPIRKINA, G. U.

S/277/63/000/004/003/013 A004/A127

AUTHORS:

Gol'dshteyn, Ya.Ye., Spirkina, G.V.

TITLE:

Steels 15XHC2BA (15KhNG2VA) and 15 X2 C2CBA (15Kh2G2SVA) as replacements for 18 X2 H 4 BA (18Kh2N4VA) steel for fuel apparate components

PERIODICAL: Referativnyy zhurnal, Otdel'nyy vypusk. 48. Mashinostroitel'nyye materialy, konstruktsii i raschet detaley mashin, no. 4, 1963, 12, abstract 4.48.78. (Traktory i sel'khozmashiny, 1962, no. 6, 39 - 42)

TEXT:

The authors present the chemical compositions, physico-mechanical properties and heat-treatment conditions of the steel grades 15KhNG2VA and 15Kh2G2SVA which are characterized by a lower Ni-content. These steel grades are recommended for the manufacture of precision components of fuel apparatus.

[Abstracter's note: Complete translation.]

Card 1/1

Chelysbinok NIIM

SERGEYEVA, Z.I.; SHTERN, I.Ya.; KUZ'MINA, N.L.; EUVINA, S.M.,
Prinimali uchastiye: SPIRKINA, V.I.; SAMSONOV, V.D.; GULINKINA, I.R.

Dyeing of elastic foam polyurethan and the application of a printed pattern to it. Plast.massy no.2:25-27 '62. (MIRA 15:2)

(Plastice) (Polyurethan)

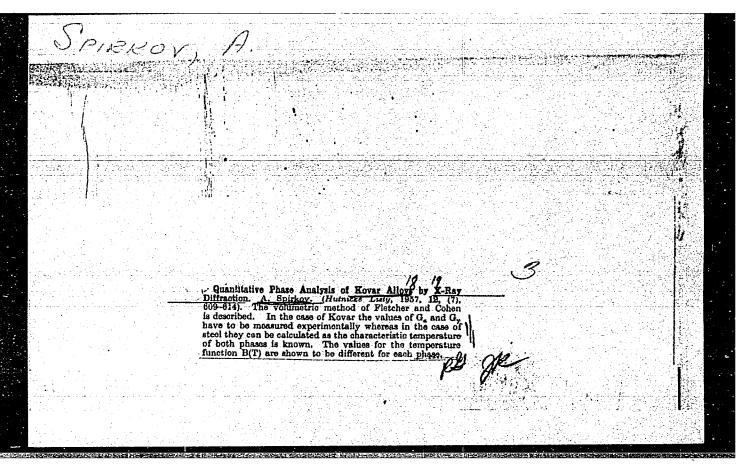
CZECHOSL OVAKIA

# KSANDR, Z; SAMEK, Z; SPIRKO, V; FERLES, M

1. Department of Analytical Chemistry - (for ?). 2: Department of Organic Chemistry - (for ?), Institute of Chemical Technology. 3: Institute of Organic Chemistry and Bio - chemistry, - (for ?). Czechoslovak Academy of Sciences, Prague

Prague, Collection of Czechoslevak Chemical Communications, No 7, July 1966, pp 3003-3007

"Studies in the pyridine series. Part 13: NMR-shift ranges for some isomeric alkylsubstituted tetrahydropyridines."



Spirkov, A., Ing. AUTHOR:

CZECH/34-59-48/18

TITLE:

X-ray Diffraction Studies of Cold-rolled Kovar Alloys

(Rentgenografická studie plasticky tvářených kovarových

slitin)

PERIODICAL:

Hutnicke Listy, 1959, Nr 4, pp 316 - 319

(Czechoslovakia)

ABSTRACT: The work described in this paper is a continuation of earlier published work (Hutnické Listy, 1957, 161 12, Nr 7, p 609) and deals with the application of quantitative determination of the  $\alpha$  and  $\gamma$  phases for the purpose of investigating Kovar alloys after gradual cold-working. Systematic investigation of these coldworked alloys anabled elucidating the mechanism of lattice distortion and also finding a simple criterion for evaluating the stability of Kovar alloys. Five basic types of Kovar have been investigated, namely, 1 German, 1 Austrian and 3 Czechoslovakian and, for all these, a quantitative phase analysis was available from earlier work (Ref 2). The spectrum lines for two Kovar alloys are given after degrees of reduction of 0, 25, 50 and 75%

Card1/3

CZECH/34-59-4-8/18
X-ray Diffraction Studies of Cold-rolled Kovar Alloys

In Figure 5, the dependence of the disturbance factor on the reduction in % is graphed for several of the tested Kovar alloys. On the basis of the experimental results, the following conclusions are arrived at: the decrease of the distortion factor of the  $\alpha$ -phase can be explained by the fact that only a part of the deformation energy is consumed for the formation of lattice distortions whilst the remaining part of the energy is consumed for further a-phase formation. Fluctuations of the distortion factors  $B_{\alpha}$ can be explained, according to Wood, by the principle of existence of an upper and a lower boundary of the size of crystals of a given phase. The α-phase content of Kovar sheet increases gradually with increasing reduction. A simplified criterion of the stability of a Kovar alloy is its a-phase content for a given reduction and a Kovar alloy will be the more stable the lower the increase in the  $\alpha$ -phase for a given degree of reduction.

Card2/3

CZECH/34-59-4-8/18

X-ray Diffraction Studies of Cold-rolled Kovar Alloys

There are 5 figures, 1 table and 7 references, 5 of which are Czechoslovakian, 1 English and 1 Soviet.

Výzkumný ústav pro vakuovou elektrotechniku, Praha (Research Institute for Vacuum Techniques in Electrical Engineering, Prague) ASSOCIATION:

July 7, 1958 SUBMITTED:

Card 3/3

z/034/60/000/09/003/004 E073/E535

FUTHOR:

Spirkov, Alexander, Engineer

X-ray Evaluation of Molybdenum Strip Used in Vacuum

TITLE:

Electrical Engineering

PERIODICAL: Hutnické listy, 1960, No.9, pp.699-705

The task of the author was to determine the optimum annealing temperature for various Czech produced grades of molybdenum from the point of view of preventing crack formation during shaping. It was found by experiment (Fig.3) and also by information published in literature (Ref. 3) that the texture of molybdenum remains unchanged for annealing temperatures up to 1500°C; only the size of the crystals increases (recrystallization in situ and local reorientation). Under certain conditions the texture will not change with the degree of annealing and, therefore, the anisotropy in the ductility cannot be eliminated but the magnitude of the internal stresses can be reduced, to prevent For determining the recrystallization temperature, the author used seven heats of Czech origin produced by the premature cracking. firm Safina, which were subjected to step-wise annealing at the

Card 1/3

Z/034/60/000/09/003/004 E073/E535

X-ray Evaluation of Molybdenum Strip Used in Vacuum Electrical Engineering

temperatures 800, 900, 1000, 1100, 1200, 1300, 1400 and 1500°C. For all the melts, reflected diffraction patterns produced by means of cobalt radiation were photographed and the recrystallization temperatures were determined (Table 1), whereby the average recrystallization temperature was 1100°C. The authors also measured the dependence of the width of the X-ray diffraction lines on the number of (deep) draw passes. The results varied considerably for the various types of molybdenum. In addition to Czech produced molybdenum, one grade of Soviet produced molybdenum and one grade of molybdenum produced by the West German firm Metallwerk Plansee were tested. The results are entered in the graphs, Figs. 10 and 11. During the entire process of shaping the texture did not change, even after cracking or tearing. results have shown that for investigating the behaviour of the material it is preferable to use mechanical tests. The results of X-ray tests are less conclusive and the same applies to

Card 2/3

vć

VENCOVSKY, V., inz.; SPIRKOVA, I.

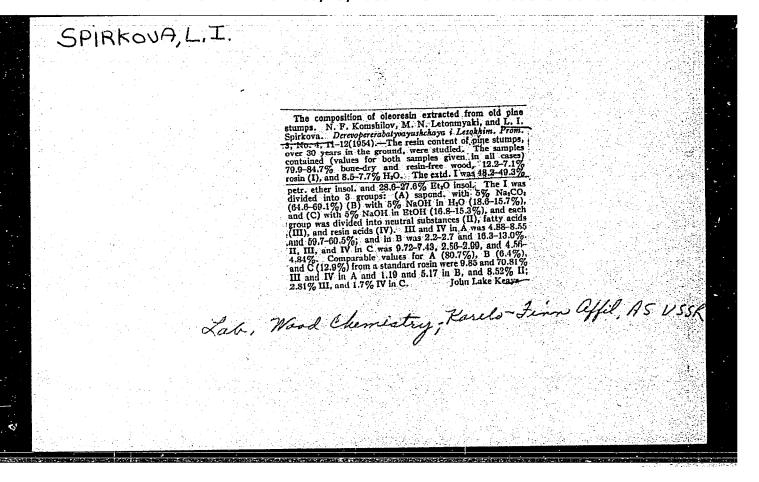
Using automatic computers in transportation control of building materials. Stav vyzkum no.3:26-32 Je '62.

1. Vyzkumny ustav stavebni vyroby, Praha (for Vencovsky). 2. Pozemni stavby, Plzen (for Spirkova).

KOMSHILOV, N.F.; SPIRKOVA, L.I.

Determining the weight of resinous stump wood. Der.i lesokhim.prom. 2 no.12:13-15 D '53. (MIRA 6:11)

1. Laboratoriya lesokhimii Karelo-Finskogo filiala Akademii nauk SSSR. (Wood)



GATERNIAH, KOLL

USSR/Chemical Technology. Chemical Products and Their Application -- Wood chemistry

products. Cellulose and its manufacture. Paper, I-23

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6248

Author: Komshilov, N. F., Pervozvanskiy, I. V., Pilipchuk, O. I.,

Spirkova, L. I.

Institution: Karelo-Finnish Filiate of the Academy of Sciences USSR

Title: Raw Material Base of Rosin and Extractive Industry of the Karelo-

Finnish SSR

Original

Publication: Tr. Kar.-Fin. fil. AN SSSR, 1956, No 3, 67-80

Abstract: Data are provided concerning supplies of stump lightwood. Average

pitch content of lightwood from Medvezh'yegorskiy forestry is 17%

(on the basis of wood containing 20% moisture).

Card 1/1

Skinding P., prof.

Achievements and prospects of Bulgaria's industrialization. Przegl techn 86 no.3:8 17 Ja 165.

JANCS, P., inz.; SPIRMAN, O., dr.

Determining the operational conditions of steel carles by means of electromagnetic defectograph. Inz stavby 10 no. Cuppl.: Mechanizace no.8:97-98 62.

1. Ustav tachnickeho dozoru.

NOTZL, Otto, inz.; SPIRMAN, Ota, dr.

Spring winding drums for movable electric conduits. Elektrotechnik 17 no.7:203-204 Jl '62.

NOTZL, Otto, inz.; SPIRMAN, Ota, dr.

Electric measurement instrument for determining the weight of load suspended on crane. Elektrotechnik 17 no.9:265-266 S 162.

NOTZL. Otto, inz.; SPIRMAN, Ota, dr.

Electric heating of pavements and sidewalks. Elektrotechnik
17 no.9:267 S '62.

NOTZL, O., inz.; SPIRMAN, O., dr.

Heavy damage of two electric motors caused by friction of the rotor against stator in consequence of bearing trouble. Elektrotechnik 17 no.10:291-292 0 '62.

NOTZL, O., inz.; SPIRMAN, O., dr.

Manual battery dr:ller. Elektrotechnik 17 no.10:293
0 '62.

NOTZL, 0., inz.; SPIRMAN, 0., dr.

New instruments for boring holes for earth wires. Elektrotechnik 17 no.4:110-111 Ap 162.

NOTZL, Otto, inz.; SPIRMAN, Ota, dr.

Damaging of industrial equipment by animals. Elektrotechnik
18 no.3:77-79 Mr '63.

SCHWARZ, J., inz.; SPIRMAN, O., dr.

Mobile hoister with electric drive. Siln doprava 11 no.11:  $26\ N$  163.

SPIRMAN, O., dr.; NOTZL, C., inz.

Mobile ramming machine. Inz stavby 12 no.10: Suppl: Mechanizace no.10:166 '64.

SPIRO, B.

Tuberculosis according to Pavlovian theory, review of Soviet literature. Gruzlica, Warsz. 19 no. 4:433-437 July-Aug. 1951. (CLML 21:3)

1. Of the Third Department of Sanatorium imienia Felix Dzierzynski, National Complex of Tuberculosis Sanatoriums in Otwock.

LJUBISAVIJEVIC, Sava; SPIRO, Budimir

Tuberculosis in the village of Baljevac. Srpski arh. celok.
lek. 84 no.4:446-454 Apr 56.

1. Institut za tuberkulozu Narodne Republike Srbije. Direktor;
Milan Grujic.

(TUBERCULOSIS, epidemiol.

in Serbia, prev. by BCG vaccine (Ser))

(BCG VACCINATION.

vaccine, in prev. of epidemiol. of tuberc. (Ser))

SPIRO, I. S.

Akhumov, E. I., Spiro, I. S.- "Regularities in variation of solubility. Part 6. Raoult's law." (p. 737)

SO: Journal of General Chemistry, (Zhurnal Obshchei Khimii), 1952, Vol. 22, No. 5

HARSANYI, Cy.; BARANYI, M.; SPIRO, J.

Binding of alkali earth metal ions by actin. Acta physicl. hung.
Suppl. no.6:71-72 1954.

1. Biochemisches Institut der Medizinischen Universitat, Budapest.
(MUSCLE PROTRIES
actin. binding of calcium & magnesium)
(GALCIUM
binding with actin)
(MANNSIUM
binding with actin)

BARANY, Mihaly; KOTELES, Gyorgy; NAGY, Eleonora; SPIRO, Janos

Modified method for actin purification; Relationship between the precipitation of actin and the fixing of magnesium ions. Kiserletes orvostud. 8 no.5:491-497 Sept 56.

1. Budapesti Orvostudomanyi Egyetem Biokemiai Intezete.

(MUSCLE PROTEINS

actin purification, relation between precipitation rate & magnesium ion fixation (Hun))

BARANY, M.; SPIRO, J.; KOTELES, Gy.; NAGY, E.

Studies on actin-actin bounds. I. Role of sulfhydryl and amino groups. Acta physiol. hung. 10 no.2-4:145-158 1956.

1. Biochemises Institut der medizinischen Universitat, Budapest. (MUSCLE PROTEINS

actin polymerization & depolymerization, role of amino & sulfhydryl groups. (Ger))

BARANY, M.; SPIRO, J.; KOTELES, Gy.; NAGY, E.

Studies on actin-actin bounds. II. Protective effects of ATP toward depolymerizing agents. Acta physiol. hung. 10 no.2-4:159-170 1956.

1. Biochemisches Institut der Medizinischen Universitat, Budapest. (MUSCLE PROTEINS

actin, protective eff. of ATP toward depolymerizing agents (Ger))
(ADTMYLPYROPHOSPHATE, eff.

protective eff. toward actin depolymerizing agents (Ger))

# Linear pulse amplifier with a derivation forming circuit. Jaderna energie 8 no.12:436-438 '62. 1. Tesla Pardubice, n.p., Vyzkumny zavod, Premysleni.

3+1

L 45425-66 NONE

ACC NRI AT6029407 SOURCE CODE: CZ/2503/66/000/012/0149/0167

AUTHOR: Spiro, Kornel
ORG: Research Institute of Mathematical Machines, Prague

TITLE: A logical model of differentiation and generalization in learning

SOURCE: Ceskoslovenska akademie ved. Vyzkumny ustav matematickych stroju.

Stroje na zpracovani informaci, no. 12, 1966, 149-167

TOPIC TAGS: algorithm, elementary stimulus, elementary reaction, pedagogy

ABSTRACT: The author describes a possible logical model of the human learning process. Teacher-system B teaches pupil-system A the correct reactions to stimuli. The reactions are composed of a number of elementary reactions. General laws are assumed to exist in the relations between stimuli and reactions. A single reaction to each stimulus is learned. Each stimulus consists of elementary binary stimuli and each reaction consists of elementary binary reactions. The elementary reaction is the logical function of elementary functions.

Card 1/2

SEIPO, II.

"Nain Froblers of Flanning Supply of Naterials", P. 30. (TOFBTEFFELES, Vol. 8, No. 3, Nor. 1954, Fuderest, Hunsary)

SO: Nonthly List of East European Accessions, (EFAL), IC, Vol. 4, No. 1, Jan. 1955, Uncl.

SHIRC, M. Pro lems of developing economic analysis in the machine industry. p. 5.

Vol. 9, No. 12, Lec. 1955.
COLITICALIS.
THEMICICAL
Endapest, Hungary

So: Fast European Accession, Vol. 5, No. 5, Nay 1956